

Dear Ralf and Alexandra,

from the debugger's hints I see 2 critical points

Point 1

-----

in line 1020, where there is

```
// center and radius
Double_t xcrot, ycrot, xc, yc, epsilon, R;
ycrot = 1/(2*a);
xcrot = -b/(2*a);
epsilon = -c*pow((1+(b*b)), -3/2);
R = epsilon + sqrt((xcrot*xcrot)+(ycrot*ycrot))
```

try to protect adding a

```
if(fabs(a)<0.000001) return 0; //
```

before ycrot calculation

Point2

-----

in line 1070 there is:

```
Double_t d;
d = ((xc + yc) - R*(TMath::Cos(phi) + TMath::Sin(phi)))/(TMath::Cos(phi) + TMath::Sin(phi))
```

it might be for some reason that (TMath::Cos(phi) + TMath::Sin(phi)) goes to 0.

try to protect with a

```
Double_t d=-999;
if (fabs(TMath::Cos(phi) + TMath::Sin(phi))>0.00001) d= bla bla;
```

I guess - and hope! - that the second case is the right one.

I cannot try here since I do not see your seg fault, but let me know it I got the case!!!

good luck, Pablo

